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CLAIM AMENDMENTS

1. (previously presented) A method of manufacturing an on-chip transformer balun, the method comprises:

creating, on a semiconductor substrate, a primary winding having at least one primary turn on a first dielectric layer and at least one metal bridge on a second dielectric layer, wherein the at least one primary turn is substantially symmetrical; and

creating, on the semiconductor substrate, a secondary winding having at least one secondary turn on a third dielectric layer and at least one metal bridge on a fourth dielectric layer, wherein the at least one secondary turn is substantially symmetrical, and wherein the secondary winding is magnetically coupled to the primary winding.

2. (previously presented) The method of claim 1, wherein the creating of the primary winding further comprises:

creating a plurality of turns on the first dielectric layer;

creating a plurality of metal bridges on the second dielectric layer; and

operably connecting the plurality of metal bridges to the plurality of turns to provide the primary winding.

3. (previously presented) The method of claim 1, wherein the creating of the secondary winding further comprises:

creating a plurality of turns on the third dielectric layer;

creating a plurality of metal bridges on the fourth dielectric layer; and

operably connecting the plurality of metal bridges to the plurality of turns to provide the secondary winding.

4. (original) The method of claim 1 further comprises:

creating the primary winding to include an interwoven spiral-type primary inductor; and

creating the secondary winding to include an interwoven spiral-type secondary inductor that is substantially symmetrical to the primary winding.

5. (previously presented) The method of claim 1 wherein the primary winding includes an interwoven spiral-type primary inductor including a first number of multiple turns; and

wherein the secondary winding includes an interwoven spiral-type secondary inductor including a second number of multiple turns.

6. (original) The method of claim 1, wherein the creating of the secondary winding further comprises:

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connecting a center tap of the secondary winding to ground to provide a differential signal at end ports of the secondary winding.

7. (cancelled)

8. (cancelled)

9. (cancelled)